

# TRIM TRIO CONTACTS

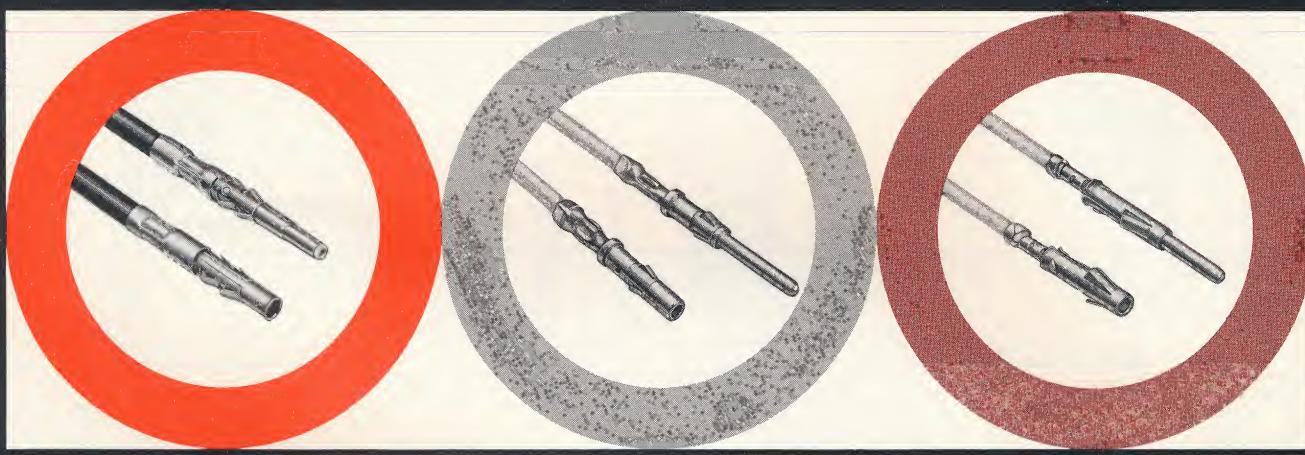
All three types of contacts mount on .150 inch centers for high density application. The TRIO has a flexible wire range accommodation from no. 26 thru no. 16 to subminiature coaxial or shielded cables. Each contact can be crimped with a variety of tools; hand, semi-, or fully-automatic, for prototype or high production. No insertion tool is necessary and one extraction tool will remove any of them.

The line consists of:

Subminiature coaxial  
male and female contacts

no. 16 .0625 diameter machined  
pin and socket contacts

No. 16 .0625 diameter strip fed formed  
pin and socket contacts



type RMDX/RCDX-2

type RM/RC-M

type SM/SC-M

The contacts are all made of high conductivity copper alloy. The standard plating is 30 microinches minimum gold over 200 microinches minimum silver which provides low contact resistance and good wear and corrosion protection. For other than standard plating, consult BURNDY for details.

**RETAINING SPRINGS** are made of tempered, heat-treated beryllium copper with bright nickel plating. The two spring locking legs provide high retention after numerous insertions and withdrawals. They are designed to withstand the unusual stresses imposed on them by leading wires off at sharp angles and by blind mating.

**INTERNAL SOCKET SPRING** totally enclosed in the no. 16 machined contact supplies high contact pressure between pin and socket to assure good electrical continuity and low contact resistance. It also provides a uniform engagement force between pin and socket, and will not take a set when probed.

## SUBMINIATURE COAXIAL CONTACTS type RMDX/RCDX-2

The newly designed contacts for subminiature coaxial, shielded cables and twisted pair wires, consist of an inner pin / socket and outer male / female body. The insulating bushing in the body is made from thermoplastic and is designed to accept and permanently retain the inner contact. With this material the subminiature coaxial contact can be used to an ambient temperature of 65°C. The tin plated, corrosion resistant outer ferrules not only hold the outer braid to the outer contacts, but also act as an insulation support to provide some insurance

against bending and vibration stresses on the cables.

The HYFEN principle, as applied to subminiature and shielded cables, utilizes the crimp concept individually on the inner and the outer conductor enabling inspection of both critical crimp points.

Subminiature coaxial contacts meet the applicable performance requirements of MIL-T-7928 and MIL-F-21608 for crimp type contacts, and MIL-E-16400 and MIL-I-983 for compression methods, and for grounding and terminating shields.

### Performance characteristics

Operating voltage between inner and outer contact 230 volts DC sea level working voltage.

Test potential between inner and outer contact 500 volts AC 60 cycles for 1 minute. Operating temperature -27°C to +65°C (for higher operating temperatures, consult BURNDY).

Contact retention in panel 15 pounds minimum. Contact voltage drop (maximum) 25 millivolts at 1 ampere for inner and outer contacts.

Wire sizes other than those shown can also be accommodated. Consult BURNDY giving wire particulars.

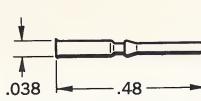


Fig. 1

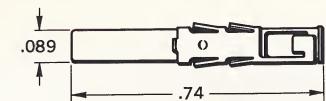


Fig. 2

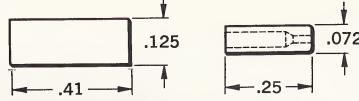


Fig. 3

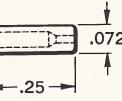


Fig. 4

Inner pin and outer female body component group may be ordered in kit form, consisting of one each RCDX60-2, RMD26L-1, RCDXB-055-1 and YOC-074.  
Kit Catalog Number: RCDXK-1.

Coaxial Cable*	Contact For Inner Conductor				Contact For Outer Braid						Extraction Tool	
	Pin Catalog Number	Fig. No.	Crimp Tool M10S-1		Outer Female Body		HYRING		Crimp Tool M10S-1			
			Die Set	Stop Bushing	Catalog Number	Fig. No.	Catalog Number	Fig. No.	Die Set	Stop Bushing		
RG161/U RG179A/U RG187/U	RMD26L-1	1	S-23	SL-46	RCDX60-2		YOC-074	3	S-22	SL-47	RX20-25 or RXK20-25	
RG174/U RG188/U Amphenol 21-598			S-26	SL-46	RCDX60-2	2	YOC-074	3	S-22	SL-47	RX20-25 or RXK20-25	
RG178A/U RG196/U			S-23	SL-46	RCDX60-2		YOC-074	3	S-22	SL-47	RX20-25 or RXK20-25	
							RCDXB055-1	4				

\*Wire types other than those noted may also be accommodated by contacts above. Refer to Burndy, giving wire particulars.

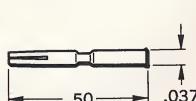


Fig. 1

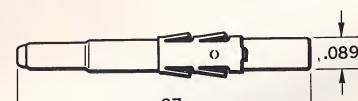


Fig. 2

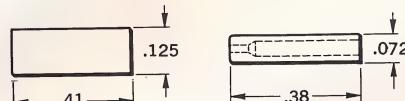


Fig. 3

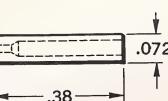


Fig. 4

Inner socket and outer male body component group may be ordered in a kit form, consisting of one each RMDX60-2, RFD26L-1, RMDXB-055-1, YOC-074.  
Kit Catalog Number: RMDXK-1.

Coaxial Cable*	Contact For Inner Conductor				Contact For Outer Braid						Extraction Tool	
	Socket Catalog Number	Fig. No.	Crimp Tool M10S-1		Outer Male Body		HYRING		Crimp Tool M10S-1			
			Die Set	Stop Bushing	Catalog Number	Fig. No.	Catalog Number	Fig. No.	Die Set	Stop Bushing		
RG161/U RG179A/U RG187/U	RFD26L-1	1	S-23	SL-46	RMDX60-2		YOC-074	3	S-22	SL-47	RX20-25 or RXK20-25	
RG174/U RG188/U Amphenol 21-598			S-26	SL-46	RMDX60-2	2	YOC-074	3	S-22	SL-47	RX20-25 or RXK20-25	
RG178A/U RG196/U			S-23	SL-46	RMDX60-2		YOC-074	3	S-22	SL-47	RX20-25 or RXK20-25	
							RMDXB055-1	4				

\*Wire types other than those noted may also be accommodated by contacts above. Refer to Burndy, giving wire particulars.

### Subminiature Coaxial Contacts for Twisted Pair



An additional application of the newly designed subminiature coaxial contacts, type RMDX/RCDX-2, is their use with the twisted pair. Two twisted no. 26 or no. 24 solid or stranded wires, are accommodated by the contact, using an auxiliary supporting sleeve Type YORX. In-

stallation tooling for assembling the twisted pair is identical to standard tooling for subminiature coaxial cable applications. However, a secondary crimp has been added to the outer HYRING to secure the auxiliary supporting sleeve, thus providing additional mechanical strength.

## No. 16 (.0625 dia.) MACHINED CONTACTS type RM/RC-M

The .0625 diameter machined HYFEN pins and sockets, which accommodate no. 26 thru no. 16 wires are recommended for Military and high reliability applications. Barrels on both contacts usually have an insulation grip to support the wires against bending and vibration stresses. They also have a cable stop and inspection hole to assure perfect crimps every time.

These contacts meet the applicable performance requirements and crimp joint characteristics

of MIL-C-22857, and will mate and are interchangeable with the no. 16 (.0625) diameter formed contacts, type SM/SC-M.

Contacts with the prefix M- are furnished in expendable plastic carry strips for semi-automatic installation with the YD2-1 HYPRESS.

Wire sizes other than those shown may also be accommodated; refer to BURNDY giving wire particulars.

### Performance characteristics

**Current rating** 13 amperes

**Contact voltage drop** 23 millivolts at 13 amperes

**Contact retention** 25 pounds

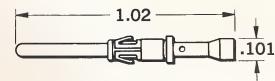


Fig. 1

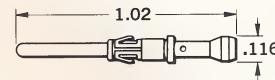


Fig. 2

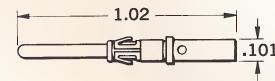


Fig. 3

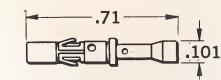


Fig. 4

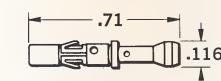


Fig. 5

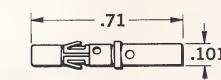


Fig. 6

Wire Size and Mil. Spec.	Cable Strip Length	Pin Contact		Socket Contact		Crimping Tools					Extraction Tool Cat. No.
		Catalog Number	Fig.	Catalog Number	Fig.	M8ND/Y8ND "N" Die Set Cat. No.	YD2-1 Die Set Cat. No.	M10S-1		Bandomatic (Type AM2-2) Die Set Cat. No.	
						Die Set Cat. No.	Stop Bushing	Die Set Cat. No.	Stop Bushing	Die Set Cat. No.	
26 str., MIL-W-16878C type B, E, EE; 24 str., MIL-W-16878C type B, C, E, EE, F	.188	RM24M-9 M-RM24M-9 C-RM24M-9	1	RC24M-9 M-RC24M-9 C-RC24M-9	4	N24RT-10 — —	YDD83-1 — —	S-9 — —	SL-40 — —	— AMK-4 —	RX20-25 or RXK20-25
22 str., MIL-W-16878C type B, EE, F; MIL-W-5086A type T 20 str., MIL-W-16878C type B, E	.188	RM20M-13 M-RM20M-13 C-RM20M-13	2	RC20M-13 M-RC20M-13 C-RC20M-13	5	N20RT-30 — —	YDD82-1 — —	S-10 — —	SL-40 — —	— AMK-6 —	RX20-25 or RXK20-25
22 str., MIL-W-16878C type C; MIL-W-5086A type II, III; MIL-W-76A type MW 20 str., MIL-W-16878C type C, EE, F; MIL-W-5086A type I, II; MIL-W-76A type MW	.188	RM20M-12 M-RM20M-12 C-RM20M-12	2	RC20M-12 M-RC20M-12 C-RC20M-12	5	N20RT-30 — —	YDD82-1 — —	S-10 — —	SL-40 — —	— AMK-6 —	RX20-25 or RXK20-25
20-16 str. MIL-W-16878C type B, C, E, EE, F, J, K, KK; MIL-W-5086A type I, II, III; MIL-W-76A type MW	.188	RM16M-23 M-RM16M-23 C-RM16M-23	3	RC16M-23 M-RC16M-23 C-RC16M-23	6	N16RT-21 — —	YDD81-1 — —	S-3 — —	SL-39 — —	— AMK-10 —	RX20-25 or RXK20-25

## No. 16 (.0625 dia.) FORMED CONTACTS type SM/SC-M

The .0625 diameter formed HYFEN pins and sockets have been designed to provide reliability with economy. Supplied 3000 contacts to a reel — on a continuous strip for high speed, low cost, fully-automatic installation; the contacts can be cut from the strip for individual hand tool installation. These contacts accept no. 26 thru no. 20 solid and stranded wires, and have insulation grips to support wires against

bending and vibration stresses.

The crimped connection meets the applicable performance characteristics of MIL-T-7928 and are recommended for high volume applications or where low cost is emphasized. They will mate and are interchangeable with the no. 16 (.0625) diameter machined contacts, type RM/RC-M.

Connectors assembled with either type

no. 16 HYFEN contacts will mate with existing solder or crimp type connectors having .0625 diameter contacts.

### Performance characteristics

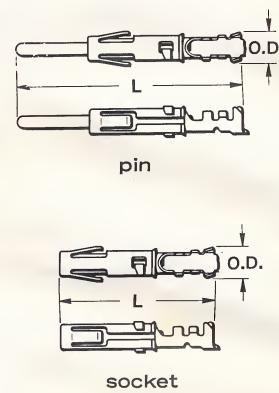
**Current rating** 13 amperes

**Contact voltage drop** 25 millivolts at 13 amperes

**Contact retention** 15 pounds

Wire Size and Mil. Spec.	Cable Strip Length	Pin Contact			Socket Contact			Contact Crimping Tools			Extraction Tool Cat. No.
		Catalog Number*	Dimensions in Inches		Catalog Number*	Dimensions in Inches		M8ND/Y8ND "N" Die Set Cat. No.	HYFEMATIC Die Set Cat. No.		
			L	OD		L	OD	Die Set Cat. No.	Stop Bushing		
26-24 sol. and str. MIL-W-16878C type B, C, E, EE, F; MIL-W-76A type LW, MW	.188	SM24M-1	1.05	.128	SC24M-1	.71	.128	N24RT-11	DM5-1	—	RX20-25 or RXK20-25
22-20 sol. and str. MIL-W-16878C type B, C, E, EE, F; MIL-W-5086 type I; MIL-W-76A type LW, MW	.188	SM20M-1	1.05	.139	SC20M-1	.71	.139	N20RT-29	DM5-1	—	RX20-25 or RXK20-25

\*Wire types other than those noted may also be accommodated by contacts above. Refer to Burndy, giving wire particulars.

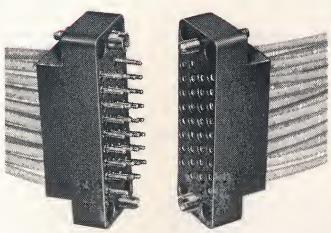


pin

socket

# TRIM TRIO CONNECTORS

A variety of connectors for broad application are available to accommodate any combination of the TRIM TRIO contacts.



Miniature  
Rectangular HYFEN® Connector  
type MS-M

This connector is offered in a complete range of 14, 20, 26, 34, 42, 50, and 75 contact positions. The plug (MS-PM) and receptacle (MS-RM) of this line of connectors will accept any combination of no. 16 (.0625) diameter machined, formed, and subminiature coaxial contacts.

Plugs and receptacles are molded of glass-filled phenolic (MIL-M-14F Type MFH) and can also be furnished in glass-filled diallyl phthalate (MIL-M-19833, Type GDI-30).

BURNDY MS-M type connectors meet or exceed the applicable performance requirements of MIL-C-8384, MIL-C-22857, MIL-T-7928, and MIL-F-21608.

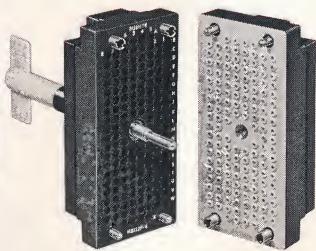
A full line of accessories—hoods, jackscrews, and polarizing guide pins—are available for use with MS-M HYFEN connectors. For detailed information see the BURNDY Rack and Panel Catalog RP.

A .104 position connector incorporating a center jackscrew is also available.



Sub-miniature Coax Cable Splice Connector type RSMDEX-1/RSCDEX-1

The sub-miniature coax cable splice connector offers a quick connect-disconnect, snap-lock splice for the TRIM TRIO contacts. The plug (RSCDEX-1) will accept the no. 16 sockets and the outer female subminiature coaxial contacts (RMDXK-2), while the receptacle (RSMDEX-1) will accept the no. 16 pins and outer male subminiature coaxial contacts (RCDXK-2). Plugs and receptacles are molded of nylon.



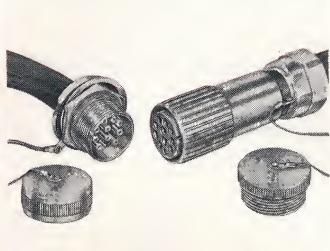
High Density Connector  
type MB-152

For rack and panel application, this connector enables the designer to accommodate 152 contacts into one single unit. The plug will accept any combination of the no. 16 sockets and the RCDXK-2 subminiature coaxial male contact assemblies. The receptacle will accept any combination of the no. 16 machined or formed pins and the RMDXK-2 subminiature coaxial female contact assemblies. Plugs and receptacles are molded of glass-filled phenolic (MIL-M-14F, Type MFH).

These connectors mate and are completely interchangeable with other existing crimp and solder type connectors.

Non-reversible pin and socket polarizing guides and jackscrews prevent misalignment and mismatching. A center jackscrew provides ease of connecting and disconnecting while maintaining positive engagement through severe environmental stresses.

The MB152 connector meets the applicable performance requirements of MIL-C-22857, MIL-T-7928, and MIL-F-21608.



HYFEN AQUALOK® Connector  
type MA28C97

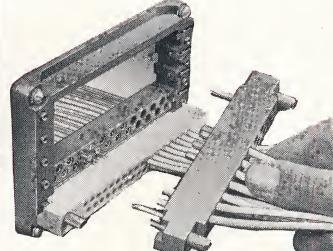
The quick disconnect, environmentally sealed unit with a high density configuration accommodates 55 contacts per connector, and will accept any combination of TRIM TRIO no. 16 machined, formed and subminiature coaxial contacts. This cylindrical connector is similar to MIL-C-5015 type connectors and conforms to the applicable portions of this specification and MIL-C-26482.

The inserts are made of glass-filled diallyl phthalate (MIL-M-19833, Type GDI-30F) and have a variety of four possible polarizing positions to avoid mismatching where more than one set of connectors is used.

The plug and receptacle can be ordered to accept either pins or sockets. A modified, double stub threaded coupling on the shell hardware ensures full mating of the connectors and also provides a method for rapid quick disconnect of the mating halves.

Protective caps are available to seal the connectors when unmated, for both the plug and receptacle. They are attached to the connectors or jacketed cable adaptors by a continuous weave stainless steel wire rope for flexibility and mechanical strength.

Consult BURNDY for details and ordering instructions on AQUALOK connectors.



Modular HYFEN Connector  
type PD57

Having high density configuration, this module will accept any combination of the TRIM TRIO contacts up to 57 positions. It will fit into any available PD-H frames for 3, 5, 8, 12 inserts in multiples or in combination with the other PD type inserts. The plug (PD57M-1) is normally used with any combination of no. 16 pins and the female subminiature coaxial contacts (RMDXK-2), while the receptacle is used with no. 16 sockets and male subminiature coaxial contacts (RCDXK-2). The plug or receptacle however, will accept either pins or sockets.

The connector is made of high dielectric strength, glass-filled phenolic (MIL-M-14F, Type MFH). A tin-plated beryllium copper shield on the receptacle grounds it to the frame, and polarized guide pins engage before the contacts. Jackscrews on both ends fasten the plug to the frame, providing the necessary engaging forces.

PD57 modular HYFEN connectors meet the applicable performance requirements of MIL-C-22857, MIL-T-7928, and MIL-F-21608.

# Installation Tooling

All tooling is full cycling, thereby guaranteeing a complete crimp each time a tool is activated, providing a built-in quality control.



## M10S-1 HYTOOL®

With removable die sets, designed to conform to the requirements of MIL-T-22520. Four-indent die sets install variety of Burndy contacts. Die sets can include insulation grip feature.



## M8ND and Y8ND

These companion tools have removable dies which are interchangeable for easy change-over from prototype to mass production.



## YD2-1 HYPRESS®

High production, semi-automatic, pneumatic, magazine-load tool. Contacts are supplied in expendable plastic carry strips for quick loading. Can be operated as hand tool, or bench-mounted.



## BANDOMATIC®

Installs a wide variety of contacts, 3000 per hour. Easy loading. Simple die changes enhance versatility. Crimped contacts conform to the applicable areas of MIL-T-22520 and MIL-T-7928.



## HYFEMATIC®

Automatically installs strip-fed contacts. High production rates, up to 4000 per hour. Installs contacts for Burndy's .078", .100", and .156" spacing EDGE-ON connectors.



**RX20-25 Extraction Tool**  
Has a spring loaded steel outer sleeve that depresses contact locking spring and an inner plunger that pushes out contact.



**RXK20-25 Extraction Tool**  
Has a fixed outer sleeve that depressed contact locking spring. With tool still in contact hole, remove contact by pulling it out from back end of connector.

# BURNDY

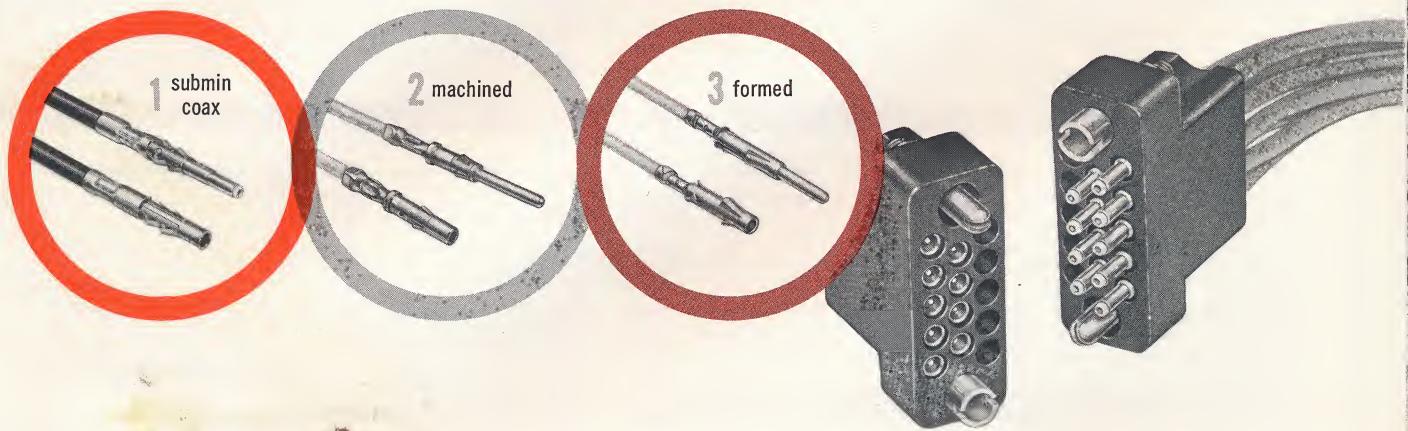
Norwalk, Connect.



# BURNDY

## TRIM TRIO

A new and unique approach in contact design is offered with the BURNDY TRIM TRIO. Any of the three; the subminiature coax, the machined, and the formed contacts, can be used in any combination in the positions of the connectors shown in this brochure.



The TRIM TRIO enables the user to make solid and stranded wire or subminiature coax cable installations at the most convenient point in his production cycle. The contacts can be easily inserted, removed and reinserted for circuit changes and checks. The versatility and economy of this family of contacts and connectors merit first consideration on any new project or standardization program, where simplification of manufacturing problems are combined with reducing costs.

**FOR INFORMATION AND SERVICE...**

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**MULLER, HARPER & ASSOC. INC., 7805 McKnight Rd., P. O. Box 11147 — 412-931-6460**

**BRADLEY ELECTRO SALES CORP., Room 711, Southern States Bldg., 7th & Main St. — 703-648-9366**

**BURNDY OF MISSOURI INC., 13014 Manchester Rd. — 314-YO 6-8466**

**BURNDY OF MINNESOTA INC., 1821 University Ave. — 612-646-7293**

**BURNDY OF CALIFORNIA INC., 560 San Antonio Rd., Palo Alto, Calif. 94306 — 415-327-4410**

**BURNDY NORTHWEST INC., 1700 — 21st Avenue S. — 206-EA 5-1730**

**CURTIS H. STOUT, INC., 409 Fairfield Bldg. — 318-425-5485**

**VINCENT J. BROWN CO., 23 Eastern Ave., P. O. Box 142 Eastwood Station — 315-HO 3-9161**

**BRADLEY ELECTRO SALES CORP., 212 "H" Street, N. W. — 202-RE 7-1300**

